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Appl. No. : 09/420,459
Examiner : Luong T. Nguyen
Docket No. : 11104.2

CLAIMS PENDING

A complete listing of the claims, including all prior amendments follows, which replaces all prior listings of claims.

1. (Previously Amended) A multi-function integrated semiconductor device comprising:

a single integrated circuit containing:

an image sensor including a plurality of light sensitive pixels for capturing an image in still and full-motion digital imaging;

a real-time image processing circuit, responsive to the light sensitive pixels, having as an output a digital representation of the image captured;

an automatic identification circuit within the real-time image processing circuit, responsive to a captured image, to generate an automatic identification indicia of a biometric attribute from a digitized image of said biometric attribute;

a personal database secure to all but a specified user;

means for providing a wireless communication including an antenna, a transmitter, a receiver, a wireless communication protocol and an Internet browser; and

memory containing a first automatic identification indicia of a biometric attribute of the specified user and software for executing a predetermined application.

2. (Previously Amended) The device of claim 1 further comprising means for inputting the biometric attribute; means for deriving a second automatic identification indicia from said inputted biometric attribute; and means for comparing said second automatic

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identification indicia to the first automatic identification indicia and permitting the specified user access to the secure personal database in response to the second automatic identification indicia matching the first automatic identification indicia.

3. (Previously Presented) The device of claim 1 further comprising a lens disposed to project an image on said image sensor, a digital processing unit, and an input/output means for transmitting the digital representation of a captured image to a remote device, wherein the digital processing unit is integrated with a first memory and the image processing circuit interrogates the captured image in real-time in said memory.

4. (Previously Presented) The device of claim 1 further comprising a supplemental memory, a digital processing unit, a lens disposed to project an image on said image sensor, and an input/output means for transmitting the digital representation of a captured image to a remote device, wherein the digital processing unit is integrated with the memory, the supplemental memory, and the real-time image processing circuit and stores the digital representation image in one of the memory and the supplemental memory.

5. (Previously Amended) The device of claim 3, further comprising:
an interface for a voice/data communications channel to a networked computer server, said communications channel comprising at least one of the group consisting of a cellular telephone network, a satellite telephone network, a wide-area network, a local-area network, and the Internet browser;

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wherein the image processing circuit further comprises means for capturing single and sequential digital images, and wherein the digital processing unit comprises means for transmitting said images including data element identifiers via the interface strikeout through the slash over the communications channel to a remote location;

wherein the personal database comprises personal identification and credit card, debit card or bank account information; and

a digital processor operable to transmit queries, receive textual and graphic responses, execute secure purchase of goods or services, and remotely store records related to electronic commerce transactions, and to execute the secure purchase of non-electronic commerce goods and services;

wherein the multi-function integrated semiconductor device is incorporated within a wireless communications product.

6. (Previously Presented) The device of claim 5 wherein the digital processor further comprises means for generating and transmitting a digital security code based on an input biometric attribute and incorporating data element identifiers.

7. (Previously Presented) The device of claim 5 wherein the digital processor further comprises means for activating a large scale processing application on a remote server.

8. (Previously Presented) The device of claim 5 wherein the digital processor further comprises means for securely executing personal financial transactions.

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9.-13. (Cancelled)

14. (Previously Amended) A wireless communications system comprising:

a multi-function integrated semiconductor device comprising a single integrated circuit having:

an image sensor including a plurality of light sensitive pixels for capturing an image in still and full-motion digital imaging;

a real-time image processing circuit, responsive to the light sensitive pixels, having as an output a digital representation of the image captured separate from said image captured;

a digital processing unit;

an automatic identification circuit within the real-time processing circuit, responsive to a captured image, to generate an automatic identification indicia of a biometric attribute from a digitized image of said biometric attribute in real-time;

a personal database secured to all but a specified user;

means for inputting the biometric attribute;

means for providing a wireless communication including an antenna, a transmitter, a receiver, a wireless communication protocol and an Internet browser;

a memory containing a first biometric attribute and software for executing a predetermined application; and

a supplemental memory, a lens disposed to project an image on said image sensor, and an input/output means for transmitting the digital representation of a captured image to a remote

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device, wherein the digital processing unit is integrated with the second memory, the supplemental memory, and the real-time image processing circuit in a single integrated circuit module and said digital processing unit stores the captured image in one of the memory and the supplemental memory; and

a communication node capable of receiving digital images transmitted via said module, said communication node being remote from said module.

15. (Currently Amended) A portable wireless communications device comprising a multi-function integrated semiconductor device having integrated in a single integrated circuit a personal database secure to all but a specified user, a sensor responsive to a biometric attribute, and a processor responsive to said biometric sensor and said secure personal database for verifying a the biometric attribute of said specified user sensed by said biometric sensor, and granting said specified user access to said secure personal database on biometric verification.

16. (Previously Presented) The device of claim 15 further comprising means for transmitting to a remote location a copy of said sensed biometric attribute in response to a failure to verify said biometric attribute.

17.-22 (Cancelled)

23. (Previously Amended) The device of claim 1 wherein the automatic identification circuit is further responsive to said captured digitized image to identify a non-biometric automatic identification indicia coded within the digitized image.

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24. (Previously Amended) The device of claim 23 wherein the non-biometric automatic identification indicia is selected from among the group consisting of a bar code, a matrix code, optical character recognition, a handwritten message, a typed message, a symbol, a signature, and a radio frequency identification tag.

25.-26. (Cancelled)

27. (Previously Amended) The device of claim 14 wherein the automatic identification circuit is further responsive to said captured digitized image to identify a non-biometric automatic identification indicia coded within the digitized image.

28. (Previously Amended) The device of claim 27 wherein the non-biometric automatic identification indicia is selected from among the group consisting of a bar code, a matrix code, optical character recognition, a handwritten message, a typed message, a symbol, a signature, and a radio frequency identification tag.

29. (Previously Amended) The portable wireless communication system of claim 15 wherein the processor further comprises an automatic identification circuit responsive to a captured image to identify a non-biometric automatic identification indicia coded within the digitized image, said non-biometric automatic identification indicia being selected from among the group consisting of a bar code, a matrix code, optical character recognition, a handwritten message, a typed message, a symbol, a signature, and a radio frequency identification tag.

30.-35. (Cancelled)

36. (Previously Submitted) The device of claim 15 further comprising means for transmitting to a remote location said biometric automatic identification indicia in response to a failure to verify said biometric attribute.

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37. (Previously Submitted) The device of claim 5, further comprising:

means for real-time scanning, decoding, and transmitting via the interface, information encoded in an automatic identification indicia, said indicia being selected from among the group consisting of bar codes, matrix codes, Optical Character Recognition (OCR), a handwritten message, a typed message, a symbol, a signature, and Radio Frequency Identification Tags (RFID).

38. (Previously Submitted) A multi-function integrated semiconductor device comprising:

a single integrated circuit containing:

an image sensor including a plurality of light sensitive pixels for capturing an image in still and full-motion digital imaging;

a real-time image processing circuit, responsive to the light sensitive pixels, having as an output a digital representation of the image captured;

an automatic identification circuit within the real-time image processing circuit, responsive to a captured image, and further responsive to said captured digitized image to identify a non-biometric automatic identification indicia coded within the digitized image;

means for providing a wireless communication including an antenna, a transmitter, a receiver, a wireless communication protocol; and

memory and supplemental memory for executing a predetermined application.

39. (Previously Submitted) The device of claim 38 wherein the non-biometric automatic identification indicia is selected from among the group consisting of a bar code, a

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matrix code, optical character recognition, a handwritten message, a typed message, a symbol, a signature, and a radio frequency identification tag.